

# Hampton Roads Regional Special Inspection Guidelines and Procedures



Effective: June 1, 2005

## Participating Localities:

**Accomack  
Cape Charles  
Chesapeake  
Chincoteague  
Franklin  
Hampton  
Isle of Wight  
James City County  
Newport News**

**Norfolk  
Northampton  
Poquoson  
Portsmouth  
Suffolk  
Southampton  
Virginia Beach  
Williamsburg  
York County**

## **ACKNOWLEDGMENTS**

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## **Preface**

As noted in the BOCA International manual ***Designing a Special Inspection Program***,

The effects of structural failures are far too many to list. The seriousness of such events gained the attention of the U.S. government. In August of 1982, a Subcommittee, chaired by Albert Gore, Jr., held investigative hearings to examine the causes of structural failure and find common problems associated with these conditions. The Subcommittee's ultimate goal was to eliminate those problems; thereby, decreasing the number of failures. (BOCA, P. 2)

To accomplish this goal, the Hampton Roads building safety community has joined together to formulate a uniform set of procedures for the manner in which participating jurisdictions enforce special inspection provisions of the Virginia Uniform Statewide Building Code (USBC). The provisions for special inspections are intended to provide a higher degree of expertise in the implementation of the structural design for critical aspects of building construction not normally found in the local building department.

The USBC effective October 1, 2003, incorporates and amends the International Code Council, Inc. (ICC) 2000 International Building Code, including portions of the 2001 and 2002 Supplements. The ***Hampton Roads Regional Special Inspection Guidelines and Procedures*** provides and coordinates the procedures for special inspections that are required by both the referenced USBC and IBC. This procedure is intended to be useable during the design and permitting process and on the job site by containing the pertinent information needed for successful application of a special inspection program.

The ***Hampton Roads Regional Special Inspection Guidelines and Procedures*** includes the following:

1. The responsibilities of the registered design professional responsible for the structural design;
2. The role of each member of the building construction team to include the registered design professionals, building owner, contractors, the special inspectors and agents, and local building official;
3. The experience and qualifications necessary to supervise and perform special inspections;
4. Identification of the required areas of special inspections, and;
5. Administrative procedures that include a uniform special inspection form that is accepted by the participating localities, important definitions, reporting requirements, and conflict resolution procedures;

The purpose of the ***Hampton Roads Regional Special Inspection Guidelines and Procedures*** is to increase awareness of the special inspection requirements and to have a uniform procedure applicable throughout the participating Hampton Roads communities. In addition, the procedure should help reduce the problem associated with permitting and performing special inspections in participating localities. Should you have any questions or suggestions for future editions of this document, feel free to contact the Policy Coordinator noted on page 1.

## **1. Introduction**

### **A. Purpose**

The provisions for special inspections are intended to provide a higher degree of scrutiny for aspects of construction that, upon failure, would cause significant harm. These aspects of construction include soil suitability analysis, fabrication and installation of structural steel members, certain concrete and masonry construction, fabrication and installation of wood structural elements, pile and pier foundations, sprayed fire-resistant materials, wall panels and veneer systems, EIFS, special cases and smoke control systems as detailed in the International Building Code (IBC).

The IBC as adopted by reference through the Virginia Uniform Statewide Building Code (USBC) intends that an experienced expert be in responsible charge of the inspection of these special types of construction. The Hampton Roads building safety community has joined together in agreement to implement a uniform procedure for the manner in which jurisdictions enforce the special inspection requirements of the USBC and the IBC. This includes the standard for experience and qualifications necessary to adequately control the work being performed, duties of the special inspector, reporting requirements, as well as oversight by each jurisdiction. It specifies the type and manner of work and how it is to be performed and any supervision required. It also clarifies the requirements for reporting the results and record keeping.

This procedure is intended to safeguard public safety and general welfare through structural strength of building materials by:

- Clearly defining the responsibility of all parties involved in the special inspection process and
- Standardizing the necessary qualifications required for Special Inspectors and Laboratories and
- Applying the special inspection provisions of the USBC in a consistent manner across the Hampton Roads Community.

### **B. Background**

Numerous structural failures occurred during the late 1970's and early 1980's throughout the United States. These failures resulted in personal tragedies and tremendous property damage costs. However, most if not all of these failures, were predicable in nature and centered on one common theme; lack of an adequate construction inspection process.

In August of 1982, the U.S. House of Representatives, Subcommittee on Investigations and Oversight, chaired by Albert Gore, Jr., held investigative hearings to examine the causes of structural failures. This subcommittee was part of the Committee on Science and Technology. In March of 1984, the Committee on Science and Technology's report titled *Structural Failures in Public Facilities*, House Report 98-621, was presented to the 98th Congress. The following are highlights from this report.

The central issue addressed by the Subcommittee was:

“Are there common problems associated with structural failures, the elimination of which would decrease the number of failures?”

While the Subcommittee identified over twenty contributing factors, (2) two common problems were felt to be the most critical;

- The need for improved organization on construction projects and better communication between participants.
- The need for construction inspection by the Structural Engineer of Record (SER) during the construction of principal structural components.

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The Subcommittee found that:

“For a variety of reasons, the structural engineer of record or his designee is often not present on the job site during the construction of principal structural components. The absence of the structural engineer has permitted flaws and changes on site to go unnoticed and uncorrected.”

The Subcommittee recommended that:

“Professional organizations, such as the Building Officials and Code Administrators International (BOCA), the International Conference and Building Officials (ICBO), and the Southern Building Code Conference International, should make every effort to ensure that provisions are written into the building codes and adopted in public forum which make the on-site presence of the structural engineer mandatory during the construction of structural components on public facilities.”

Model code organizations and building officials have attempted to address structural failures by enacting and enforcing Special Inspection provisions since 1987. However, the model codes fell short of requiring the Structural Engineer of Record to serve as the Special Inspector.

As time has elapsed and memories fade, special inspections and the role of the Structural Engineer of Record have been topics of controversy and confusion in recent years. Many organizations, such as the American Consulting Engineers Council and the Virginia Structural Engineers Council as well as the Council of American Structural Engineers (CASE), agree with the Subcommittee’s recommendations and believe strongly that the SER or his agent should serve as the Special Inspector whenever possible and practical.

## **2. Definitions**

Words used in this procedure shall have a meaning as defined in the USBC and the IBC. Unless otherwise expressly stated, other words and terms shall have the meaning shown in this procedure. Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies.

**Agents of Special Inspector (Agents).** Qualified individuals or agencies working under the direction of the SI who are providing the inspections and tests necessary to complete the special inspection process.

**Approved.** See IBC-202

**Approved agency.** See IBC-1702.1

**Approved documents.** Includes building construction documents as approved by the municipality including all approved revisions; and also  
Fabrication and erection documents as approved by municipality including all approved revisions.

**Approved fabricator.** See IBC-1702.1

**Architect of Record (AR).** The registered design professional (RDP) retained by the Owner to design or specify architectural construction in accordance with the USBC and whose signature and seal appears on the approved architectural construction documents.

**Building.** See USBC-202

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***Building Official.*** The local government authority charged with the administration and enforcement of the USBC. This shall include any duly authorized technical assistant as specified in the USBC.

***Construction documents.*** See IBC-202

***Contractor:*** A general contractor licensed in the Commonwealth of Virginia (See Commonwealth of Virginia, Title 54.1)

***Fabrication item.*** See IBC-1702.1

***Fabrication and erection documents.*** All of the written, graphic, and pictorial documents prepared or assembled after issuance of a building permit and in addition to the municipality approved construction documents, describing the design, location, and physical characteristics of the building components or materials necessary for fabrication, assembly, or erection of the elements of the project. (Examples would include, but are not limited to, concrete reinforcing shop drawings, steel fabrication and erection shop drawings, and metal building fabrication and erection shop drawings.)

***Final Report of Special Inspections.*** A certification by the special inspector which shall indicate that all construction elements subject to special inspections as identified by the jurisdiction approved Statement of Special Inspections (SSI) for all materials or phases of construction have been inspected prior to concealment, and in the special inspector's professional opinion and knowledge, the construction project complies with jurisdiction's approved Construction Documents.

***Geotechnical Engineer of Record (GER).*** The RDP retained by the Owner to design or specify earthwork and foundations in accordance with the USBC, and whose seal and signature appear on the jurisdiction approved geotechnical report.

***Inspection.*** The continuous or periodic observation of work and the performance of tests for certain building or structural components to establish conformance with jurisdiction approved documents as required by the USBC and the IBC.

***Inspection certificate.*** See IBC 1702.1

***Inspection and testing agency.*** An established and recognized agency or agencies, meeting the requirements of ASTM E 329 and accredited, retained by the Owner, independent of the contractors performing the work subject to special inspections, to perform special inspections and materials testing required by the USBC and the IBC. See IBC-1702.1 Approved agency.

***Owner.*** See USBC-202.

***Pre-engineered structural elements.*** Structural elements specified by the SER but which may be designed by a specialty RDP. (Examples are items such as open web steel joists and joist girders; wood trusses; combination wood, metal and plywood joists; pre-cast concrete elements; prefabricated wood or metal buildings; tilt-up concrete panel reinforcement and lifting hardware.)

***Primary structural system.*** The combination of elements which serve to laterally brace and support the weight of the building's structural shell, the applicable live loads based upon use and occupancy, wind, snow, ice, thermal and seismic environmental loads.

***Registered Design Professional (RDP).*** See USBC-202

***Registered Design Professional(s) of Record.*** The RDP whose professional seal and signature appears on the construction documents that require special inspection(s).

**Special Inspection, continuous and periodic.** See IBC-1702.1

**Sprayed fire-resistant materials.** See IBC-1702.1

**Structural observation.** See IBC-1702.1

**Shall.** This term indicates mandatory requirements.

**Special Inspector (SI).** The SI is the RDP who is directly responsible for special inspections, materials testing and related services as described in the approved SSI. The SI shall be retained by the Owner, independent of the contractors performing the work subject to special inspection. The SI must be approved by the RDP responsible for the design and the building official.

**Statement of Special Inspections (SSI).** The SSI is a statement prepared by an RDP and shall be approved by the appropriate RDP(s) of Record and submitted by the permit applicant. The SSI includes the scope (schedule) of the special inspection services applicable to a construction project, and the RDPs and inspection and testing agencies that will provide those services. **The SSI is required as a condition for permit issuance in accordance with IBC as amended by USBC and must be approved by the building official.**

**Structural Engineer of Record (SER).** The RDP retained by the Owner to design or specify structural documents in accordance with the USBC, and whose signature and seal appear on the jurisdiction approved structural construction documents.

**Structure.** See USBC-202.

### **3. Responsibilities**

The **Building Official** is responsible for the issuance of the building permit and the Certificate of Occupancy. Prior to issuing the building permit, the Building Official will review and approve the Construction Documents, the SSI, and the qualifications of the SI and the Agents. The Building Official shall review field reports of special inspections as directed by these guidelines and procedures. The Building Official has the authority to issue a stop work order if it is found that the approved special inspectors or laboratories are not being utilized to perform required special inspections. The Certificate of Occupancy or final inspection shall be issued only after the Building Official has received and approved the Final Report of Special Inspections.

The **Contractor** is responsible for the construction of the project in accordance with the approved Construction Documents and the USBC. In addition, the Contractor is responsible for controlling the quality of construction and for providing the SI and Agents safe access to the elements that require inspection or testing. The Contractor shall coordinate construction related activities, including scheduling and timely notification of the need for Special Inspections and shall cooperate with the project's design professionals, including the SI and Agents. The Contractor shall make the site available for inspections as necessary and shall deliver samples for testing when needed. The Contractor shall respond promptly when informed of nonconforming work. The special inspection process does not relieve the Contractor of responsibility for quality control.

The **Owner** shall be responsible for the fees and costs related to the performance of special inspection services. The Owner or their authorized agent shall sign the SSI.

The **Registered Design Professional (RDP)** shall be responsible for informing the Owner of the need to provide for Special Inspections and for assisting the Owner as may be needed to retain the services of an SI. An RDP shall complete a SSI that shall include the special inspector(s) and Agent(s). The RDP



shall also review and act upon conditions noted in interim special inspection reports. The RDP shall also be responsible for supplying the SI with the necessary copies of current appropriate Construction Documents and approved submittals, fabrication, and erection documents, including those revisions and change orders affecting work to be inspected or tested.

The **Special Inspector (SI)** is responsible for performing, documenting, managing and coordinating the special inspections and the efforts of the various Agents. Individual Agents may be retained by the Owner or by the SI, but they are responsible to the SI. The Agents who are responsible for conducting inspections or tests shall be identified in the SSI that is submitted to the Building Official. The SI shall provide copies of inspection reports to the RDP of Record, Owner, Contractor and Building Official. All discrepancies shall be brought to the attention of the Contractor for correction. The SI shall report deviations from the approved Construction Documents to the appropriate RDP of Record for their resolution. Uncorrected work shall be reported to the Building Official and the appropriate RDP of Record.

The **Structural Engineer of Record (SER)** shall be responsible for identifying in the Construction Documents the specific structural special inspections to be performed for the project in order to meet the requirements of the USBC and any other requirements specified by the SER.

## **4. When Special Inspections are Required**

The USBC requires special inspections be made in accordance with the requirements of the IBC. The requirements for special inspections shall be determined prior to and are requisite for issuance of the building permit.

Special inspections are required for building components identified in the IBC when the design of these components is required to be performed by a professional engineer or architect. (See attached CHART A in Appendix B which is taken from § 54.1 – 402 of the Code of Virginia.)

Special inspections are not required:

- For work of a minor nature or as warranted by conditions in the jurisdiction as approved by the building official.
- Unless otherwise required by the building official, for occupancies in Groups R-3, R-4 or R-5 and occupancies in Group U that are accessory to a residential occupancy.

Note: Check the requirements for each component of a building or structure listed in IBC Chapter 17 to determine if the exceptions to the requirement for special inspections of that component are applicable.

## **5. Special Inspector/Laboratory Qualifications**

Special inspections shall be performed by individuals and agents that are qualified in accordance with this policy and are under the direct supervision of an RDP in responsible charge. The RDP shall ensure that the individuals under their charge are performing only those special inspections that are consistent with their knowledge and training for the specified inspections in accordance with ASTM E329 and the USBC that is in force at the time of permit issuance.

All laboratory facilities performing testing shall be operated under the direct supervision of an RDP and shall meet the requirements of ASTM E329.

Written documentation shall be provided to the building official of the applicable Agency's laboratory accreditation and/or special inspection personnel qualification(s) and certification(s).

## **6. Pre-construction Meeting**

Pre-construction meetings should be held by the SI at the start of the project. The meeting should be attended by the following individuals:

- Special Inspector
- Special Inspection Agent(s)
- Contractor
- Subcontractor's representatives for each trade of work specified in the SSI
- Owner
- RDP(s) of Record for each scope of work specified in the SSI
- Building Official

The meeting should provide a forum to review and explain the following:

- Work to be reviewed as specified in the SSI.
- Inspections performed by the Building Official.
- Timely notification required by the Contractor to the SI of when the work is ready for inspections during the course of the work.
- Procedures to document, correct, re-inspect, and complete items found to be non compliant or deficient.
- Contact information of individuals involved with the project.
- Discussion of the inspections and testing to be performed.
- Proper submission and distribution of reports and supplemental information.
- Discussion of coordination of all work to be performed in accordance with the Contract Documents and that no changes shall be permitted unless authorized and approved in writing by the RDP of Record for the work in question.

## **7. Reports of Special Inspections**

The SI shall provide copies of inspection reports to the SER, Owner, Contractor, and Building Official. The SI shall report deviations from the approved Construction Documents to the appropriate RDP for their resolution before proceeding with the inspection of the deficient work. All inspection and test reports shall be submitted within seven (7) working days of the inspection or test performed. In no case shall inspections be performed by the Building Official that would allow the concealment of work required to be inspected by the special inspector unless verification has been received that the special inspection has been successfully performed.

Special inspection and testing reports shall indicate that the specified work has been inspected and found to be in compliance with the approved construction documents unless deficiencies are noted. Reports containing deficiencies or non compliant work shall describe the nature and specific location of the discrepancies.

At the completion of a project, all recorded non compliant work shall be documented as having been corrected and approved by the RDPs of Record, as appropriate.

Upon request of the Building Official, the SI shall submit a letter indicating completion of a specific area or phase of special inspections and testing for a particular construction discipline.

Upon completion of all special inspections and testing specified on the SSI, the SI shall, after review and approval by the appropriate RDPs, submit a Final Report of Special Inspections to the Building Official for review and approval. **The Building Official review and approval is required prior to final building inspection approval or issuance of a Certificate of Occupancy.**

## **8. Completing the Statement of Special Inspection (SSI)**

A complete SSI shall be provided with the application for permit. A complete SSI will contain the following:

- The form shall be completed to include original signatures by the parties identified on the SSI.
- The Schedule of Special Inspections shall be included with proper identification of elements requiring special inspections and the associated Agent(s) responsible for inspection and/or testing.
- Agents for special inspections shall be identified to include address, phone number and responsible party. (Agent 1, Agent 2, Laboratory, etc...)
- Proper documentation as to appropriate qualifications and certifications as discussed in Section 5.
- Changes to the approved special inspector or testing laboratory after a permit has been issued must be submitted in the form of a new Statement and Schedule of Special Inspections and approved by the Building Official prior to resuming special inspections.

## **9. Referenced Documents**

- The most current edition of the USBC.
- The most current edition of the IBC published by the International Code Council.
- Special Inspections: Implementation in Fairfax County; October 1, 2003.
- National Practice Guidelines for Special Inspections by CASE (Council of American Structural Engineers).
- ASTM E-329.

## Appendix A

# HAMPTON ROADS REGIONAL STATEMENT OF SPECIAL INSPECTIONS

## PROJECT

**PERMIT APPLICANT**

**ARCHITECT OF RECORD**

**STRUCTURAL ENGINEER OF RECORD**

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the International Building Code (IBC) as stated in the Virginia Uniform Statewide Building Code (USBC). It includes a Schedule of Special Inspections applicable to this project as well as the name of the Special Inspector, and the identity of other testing laboratories or agencies intended to be retained for conducting these inspections.

The Special Inspector shall keep records of all inspections, and shall furnish inspection reports to the Building Official, RDP of Record, Owner and Contractor. All discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and structural engineer or architect of record. Interim reports shall be submitted to the Building Official, Owner, Contractor and RDP of Record according to the ***Hampton Roads Regional Special Inspection Guidelines and Procedures***.

Jobsite safety is solely the responsibility of the contractor. Materials and activities to be inspected are not to include the contractor's equipment and methods used to erect or install the materials listed.

**All fees and costs related to the performance of special professional services shall be the responsibility of the owner.**

**PREPARED BY:**

(Type or print name of RDP)

Special Inspector (Type or print)

### Preparer's Seal and Signature

Special Inspector (Signature) \_\_\_\_\_ Date \_\_\_\_\_

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Applicant's Signature	Date
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RDP of Record (Signature)	Date
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Owner's Authorization (if other than applicant)	Date
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SER (Signature) \_\_\_\_\_ Date \_\_\_\_\_

Building Official's Acceptance	Date
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## SCHEDULE OF SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	TYPE OF INSPECTION	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT/REFERENCE	AGENT	COMPLETED
GENERAL					
Pre-construction conference	Meeting with parties listed in Section 6 of the HRRSIGP to discuss Special Inspection procedures		Scheduled by SI with the Contractor prior to commencement of work		
EARTHWORK					
Site preparation (building)	Field testing & inspection		Field review, IBC 1704.7.1		
Fill placement (building)	Review submittals, field testing and inspection		Field review, IBC 1704.7.2		
Fill compaction (building)	In-place density tests		Field review, IBC 1704.7.3		
Foundation sub-grade	Field inspection of foundation subgrade prior to placement of concrete		Field review		
PILE FOUNDATIONS					
Test piles	Monitor driving of test piles		IBC 1704.8		
Pile installation	Monitor driving of piles		IBC 1704.8		
Pile load test	Monitor pile load test		IBC 1704.8		
Pile survey	Review as-driven survey		IBC 1704.8		
CONCRETE					
Materials	Review product supplied versus certificates of compliance and mix design		Submittal & Field Review IBC 1904, 1905.2-1905.4, 1914.2, 1914.3, ACI 318:Ch.4		
Reinforcing steel	Field inspection of placement		Field Review, IBC 1903.5, 1907.1, 1907.7, 1914.4, ACI 318:3.5		
Formwork installation	Field inspection		Field Review, IBC 1906, ACI 318:6.1, 6.2		
Concreting operations & placement	Field inspection of placement and curing		Field Review ACI 318;5.9-10, IBC 1905.9, 1905.10, 1914.6, 1914.7, 1914.8		
Concrete curing	Field inspection of curing process		Field Review, ACI 318;5.11-13, IBC 1905.11, 1905.13, 1914.9		
Concrete strength	Evaluation of concrete strength		Laboratory Testing, ACI 318:5.6, IBC 1906.2		
PRECAST CONCRETE					
Quality Control	In-plant review**		ACI 318:18.18		
Erection and installation	Field inspection of in-place precast		ACI 318:Ch. 16		
MASONRY					
Materials	Review of submittals		Submittal & Field Review ACI 530.1;2.3, IBC 1704.5		
Strength	Testing/review of strength		Submittal & Field Review ACI 530.1;1.4, IBC 1704.5		

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Mortar and grout	Inspection of proportioning and mixing		Field Review ACI 530.1;2.6, IBC 1704.5		
Masonry operations & installation	Inspection of application and installation		Field Review ACI 530.1;3.2 and 3.5, IBC 1704.5		
Reinforcement	Inspect condition, size, location and spacing		Field Review ACI 530Ch.8, IBC 1704.5		
Protection	Inspect procedures for protection during cold and hot weather		Field Review ACI 530.1;1.8, IBC 1704.5		
Anchorage	Inspection of anchorages		Field Review, ACI 530;4.2,5.14, IBC 1704.5		
<b>STRUCTURAL STEEL</b>					
Quality Control	**In-plant inspection of quality control procedures**		IBC 1704.2		
Bolts, nuts, washers	Material identification markings		Submittal & Field Review AISC ASD A3.4		
Bolts, nuts, washers	Review certificate of compliance		Submittal & Field Review IBC 1704.3, AISC ASD A3.4		
Structural steel	Material identification markings		Submittal & Field Review IBC 1708.4, ASTM A6		
Structural steel	Review certificate of compliance		Submittal & Field Review IBC 1708.4, ASTM A6		
Weld filler materials & welder certification	Review certificate of compliance		Submittal & Field Review AISC ASD A3.6		
Bolts, nuts, & washers	Inspection of in-place high-strength bolts		Field Review, IBC 1704.3.3,AISC Section A3.4,RCSC,Sec.9		
Welds	Inspection of welds		Field Review, IBC 1704.3.1, AWS, D1.1		
Structural details	Inspection of structural details		Field Review, IBC 1704.3.2		
<b>WOOD</b>					
Verify fabrication/quality control procedures	Review submittal and installation		IBC 1704.6		
<b>SPRAYED CEMENTITIOUS AND MINERAL FIBER FIRERESISTIVE MATERIALS</b>					
Structural member surface conditions	Field review of surface conditions prior to application		IBC 1704.11.1		
Application	Field review of application operations		IBC 1704.11.2		
Thickness	Field review of applied thickness		IBC 1704.11.3		
<b>EXTERIOR INSULATION AND FINISH SYSTEMS</b>					
Application	Field review of application/installation		IBC 1704.12		
<b>SPECIAL CASES</b>					
Alternative Materials & Systems	As requested by Bldg Official, review system & installation		IBC 1704.13		

**Hampton Roads Regional Special Inspection Guidelines and Procedures**

<b>Wind and Seismic Quality Assurance Plans</b>					
Wind and/or Seismic Requirements	As required and specified by design.		IBC 1705, 1706, 1707, 1708		
<b>SMOKE CONTROL</b>					
Special inspection of smoke control systems	Leakage testing and recording of device location Pressure difference testing and detection and control verification		IBC 1704.14		

<b>INSPECTION AGENTS</b>	<b>FIRM</b>	<b>ADDRESS</b>	<b>TELEPHONE</b>
1. Special Inspector			
2. Special Inspector			
3. Special Inspector			
4. Special Inspector			
5. Testing Laboratory			
6. Testing Laboratory			

Note: \* The qualifications of the Special Inspector and Testing Laboratories are subject to the approval of the Building Official.

\*\* Inspection of quality control procedures required only if fabricator is not regularly inspected by an independent inspection agency.

## FINAL REPORT OF SPECIAL INSPECTIONS

**PROJECT**

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**PERMIT APPLICANT**

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**ARCHITECT OF RECORD**

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**STRUCTURAL ENGINEER OF RECORD**

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To the best of my information, knowledge, and belief, the special inspections required for this project, and itemized in the statement of special inspections submitted for permit, have been completed.

The following discrepancies that were outstanding since the last interim report dated \_\_\_\_\_, have been corrected:

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Interim reports submitted prior to this final report, and numbered \_\_\_\_\_ to \_\_\_\_\_, form a basis for, and are to be considered an integral part of this final report.

Respectfully submitted,

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Type or Print Name

Seal of SI

**Upon completion of all special inspections and testing, the SI shall submit a Final Report of Special Inspections to Building Official for review and approval. The Building Official review and approval is required prior to final building inspection approval or issuance of a Certificate of Occupancy.**



## Appendix B

### A/E SEAL ON DRAWINGS

The purpose of these charts and notes is for quick reference to determine in accordance with § 54.1 - 402 of the Code of Virginia if an architect's or engineer's (A/E) seal is required on documents for proposed construction.

#### CHART A - GENERAL DESIGN

A proposed structure which is classified within any of the categories marked "Yes" requires an A/E seal on the documents. Separate requirements apply as to when the electrical, plumbing or mechanical systems in such structures require an A/E seal (see Charts B and C).

GROUP	BRIEF DESCRIPTION	AREA (SQ. FT.)			HEIGHT (STORIES)	
		5,000 OR LESS	5,001 TO 15,000	OVER 15,000	3 OR LESS	OVER 3
A <sup>1</sup>	ASSEMBLY	YES	YES	YES	YES	YES
B	BUSINESS	-	YES	YES	-	YES
E	SCHOOLS & DAY CARE CENTERS	YES	YES	YES	YES	YES
F	FACTORY & INDUSTRIAL	-	-	YES	-	YES
H	HIGH HAZARD	YES	YES	YES	YES	YES
I	INSTITUTIONAL	YES	YES	YES	YES	YES
M	MERCANTILE	-	YES	YES	-	YES
R-1	HOTEL, MOTEL & DORMITORY	YES	YES	YES	YES	YES
R-2 <sup>7</sup>	MULTI-FAMILY RESIDENTIAL	-	-	YES	-	YES
R-3	2 FAMILY ATTACHED	-	-	YES	-	YES
R-4	RESIDENTIAL ASSISTED LIVING	-	-	YES	-	YES
R-5	1 AND 2 FAMILY DWELLINGS	-	-	YES	-	YES
S	STORAGE (NON_FARM)	-	-	YES	-	YES
U	UTILITY & MISCELLANEOUS	-	-	YES	-	YES
ALL	INTERIOR DESIGN	SEE	NOTE	#4		

- Churches are exempt if building does not exceed 5,000 square feet or three stories, and the occupant load does not exceed 100.
- A local building code official may require an A/E seal even if not required to do so by this chart.
- The law requires that, where an A/E seal is not present, the plans must have the name of the individual (not company) responsible for the design, including the individual's occupation and address.
- Additions, remodeling or interior design defined under § 54.1-400 of the Code of Virginia might not require an A/E seal. For construction, additions or remodeling resulting in a change in occupancy, occupancy load, modification to the structural system, change in access or egress or an increase in the fire hazard an A/E seal is required in accordance with § 54.1-400, although notes 1 and 2 still apply.
- Any unique design of structural elements for floors, walls, roofs or foundations requires an A/E seal, regardless of whether or not the remainder of the plans require such certification.
- Buildings, structures, or electrical and mechanical installations which are not otherwise exempted but which are of standard design, provided they bear the certification of a professional engineer or architect registered or licensed in another state, and provided that the design is adapted for the specific location and conformity with local codes, ordinances and regulations, and is so certified by a professional engineer or architect licensed in Virginia may not require an A/E seal.
- One exit and three stories or less Group R-2 buildings would normally be exempted from an A/E seal except where required by Note 2. Most all other three stories or less Group R-2 multi-family buildings are required by the building officials to have A/E seals for the construction documents.